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**REMARKS**

In response to various paragraphs of the Office Action, applicants offer the following remarks.

**Claim Objections:**

Claims 23-39 have been objected-to as being in improper dependent form. Applicants have now rewritten claim 23 (originally a multiply dependent claim) in independent form, including the features of claim 1.

Newly added claim 43 includes the features of claim 23 and the features of rewritten claim 6 (claim 6 is rewritten to include the features of claims 1).

**Section 112 Rejections:**

Claims 7, 10, 21, 25 and 26 have been amended to correct the alternative form objected-to by the Office Action.

Claim 13 has been amended to correct the indefiniteness objected-to by the Office Action.

**Section 102 Rejections:**

Claims 1-3 have been rejected as being anticipated by Csongor. Applicants have now cancelled claims 1-3.

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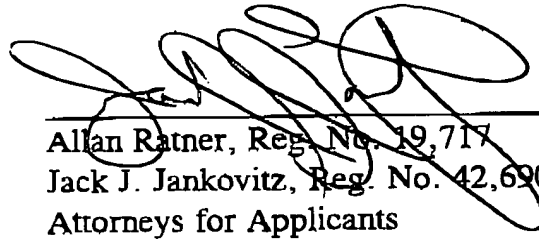
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**Double Patenting Rejection:**

Claims 1-39 have been provisionally rejected under the doctrine of double patenting over claims 1-22 of co-pending Application No. 09/975,517.

The undersigned notes that he does not know what the claims in Application No. 09/975,517 will be like when finally allowed, as these claims are being handled by another firm. As a result, the undersigned cannot address the double patenting issue now. The undersigned understands the issue of double patenting and will address them later at the appropriate time.

Respectfully Submitted,



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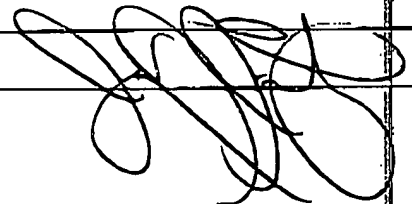
Enclosures: Version with markings to show changes made

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The Assistant Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE****IN THE CLAIMS:**

1                   4.     (Amended) An antenna comprising:  
2                   a conductive bottom member;  
3                   a conductive side member; and  
4                   a conductive member arranged in a space surrounded by the bottom  
5 member and the side member,  
6                   wherein the conductive member is connected to a signal line for  
7 transmission and/or reception, and

8                   [The antenna according to claim 1 or 3, wherein] the conductive  
9 member and the bottom member are connected to each other in a place other  
10 than the signal line or the feeding point.

1                   5.     (Amended) An antenna comprising:  
2                   a conductive bottom member;  
3                   a conductive side member; and  
4                   a conductive member arranged in a space surrounded by the bottom  
5 member and the side member,  
6                   wherein the conductive member is connected to a signal line for  
7 transmission and/or reception, and

8                   [The antenna according to claim 1, wherein] the conductive  
9 member and the side member are connected to each other.

1                   6.     (Amended) An antenna comprising:  
2                   a conductive bottom member;  
3                   a conductive side member; and

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4 a conductive member arranged in a space surrounded by the bottom  
5 member and the side member,

6 wherein the conductive member is connected to a signal line for  
7 transmission and/or reception; and

8 [The antenna according to claim 1, further comprising:]

9 a conductive ceiling member covering all or part of the space.

1 7. (Amended) The antenna according to claim 6, wherein the  
2 conductive member and the ceiling member are connected to each other  
3 electrically [and/or mechanically].

1 10. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom  
5 member and the side member,

6 wherein the conductive member is connected to a signal line for  
7 transmission and/or reception, and

8 [The antenna according to claim 1, wherein] at least one of the  
9 bottom member and[/or] the side member have openings.

1 13. (Amended) The antenna according to claim 11, wherein[, if  
2 it is assumed that] a projection of the conductive member onto the bottom  
3 member is an origin point and the bottom member is arranged in an X-Y plane,  
4 the bottom member and the side member are symmetric with respect to a Z-Y  
5 plane, and the openings are symmetrically arranged with respect to a Z-Y plane.

1 15. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

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4 a conductive member arranged in a space surrounded by the bottom  
5 member and the side member,

6 wherein the conductive member is connected to a signal line for  
7 transmission and/or reception; and

8 [The antenna according to claim 1 or 6, comprising] a dielectric  
9 member that has a permittivity higher than air [and] is provided in the space.

1 19. (Amended) An antenna comprising:

2 a conductive bottom member;

3 a conductive side member; and

4 a conductive member arranged in a space surrounded by the bottom  
5 member and the side member,

6 wherein the conductive member is connected to a signal line for  
7 transmission and/or reception; and

8 [The antenna according to claim 1 or 6, further comprising] at least  
9 one matching element [which] is arranged apart by a predetermined distance  
10 from the conductive member, wherein the matching element and the bottom  
11 member are connected to each other electrically.

1 21. (Amended) The antenna according to claim 19, wherein at  
2 least one of the matching elements is electrically connected to at least one of the  
3 ceiling member and[/or] the side member.

1 22. (Amended) An arrangement method of antennas [that is an  
2 arrangement method of the antennas according to claim 1,] , each antenna  
3 including a conductive bottom member, a conductive side member, and a  
4 conductive member arranged in a space surrounded by the bottom member and  
5 the side member, wherein the conductive member is connected to a signal line  
6 for transmission and/or reception,

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7            the method comprising a step of aligning and arranging the plural  
8    antennas in a manner to [conform] produce a direction for minimizing directivity  
9    of each of the antennas on a horizontal plane.

1            23.    (Amended) An antenna comprising:

2            a conductive bottom member;

3            a conductive side member; and

4            a conductive member arranged in a space surrounded by the bottom  
5    member and the side member,

6            wherein the conductive member is connected to a signal line for  
7    transmission and/or reception; and

8            [An antenna device comprising:]

9            [The antenna according to claim 1 or 6; and all or part of] a circuit  
10    for transmission and/or reception [which is] connected to the signal line [while  
11    being] and arranged in the space.

1            25.    (Amended) The antenna device according to claim 24,  
2    wherein the shielding member is formed as a concave portion that is [each] part  
3    of at least one of the bottom member and[/or] the side member; and

4            [wherein] all or part of the circuit is arranged in the concave  
5    portion.

1            26.    (Amended) The antenna device according to claim 25,  
2    further comprising a lid member which covers the concave portion and stores all  
3    or part of the circuit, wherein the lid member is electrically connected to at least  
4    one of the bottom member and[/or] the side member.

Newly added claims 40-43 have been added.

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